

11 RF 0000

# EG&G ROCKY FLATS



000017348

EG&G ROCKY FLATS, INC  
ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80402 0464 (303) 966 7000

DIST	U	ENC
THE 24E JC		
ALP NGAME, AH		
CCPP RD		
CROUCHER OW		
DAVS JG		
EVERED JE	X	
FERRERA OW		
FERRIS LR		
FRANKOR, FJ		
FRANCIS, G E.		
GOODWIN, R		
HEALY, TJ		
JECKER EH		
JENS, J P		
KEELE, P B.		
KERSH JM		
KIRBY WA		
KIRKBO, JA		
LEE, EM		
MAESTO JR		
MATHEWS, TA		
MEURRENS BE		
MORGAN RV	X	
NORTH P		
PALMER LA		
POTTER, GL	X	
PIZZUTO VM		
RUOADES II		
SAFFELL BE		
SWANSON ER		
WIEBE, JS		
WILKINSON RR		
WILLIAMS R E		
WILSON J M		
YOUNG ER		
ZANE JO		
W R Arndt	X	
W S Busby	X	
W D Fwan	X	
J W Langman	X	
R G Porter	X	
D M Smith	X	
ED LINDBERG	X	
FD 11-66	X	
CORRESPONDENCE	X	X
TRAFFIC		

May 20, 1991

91-RF-3000

Robert M Nelson, Jr  
Manager  
DOE, RFO

Attn John Rampe

## OUT-OF-SPECIFICATION SURFACE WATER SAMPLE - JEE-0043-91

Attached please find two Water Sample Reports and a map for two surface water samples which were out-of-specification with respect to current standards for radionuclides Below is the tabulated data from surface water stations Pond C-2 and Pond A-3 taken December 5, 1990 and October 29, 1990, respectively The specified reporting thresholds designated by IAG and CWQCC are also listed

Location	Isotope	Threshold Limit (pCi/L)	Result (pCi/L)
C-2 pond	Plutonium-239, -240	0 05	0 073 ± 0 024
C-2 pond	Americium-241	0 05	0 082 ± 0 020
A-3 pond	Americium-241	0 05	0 1 ± 0 023

This is the first out-of-specification event for the specific radionuclides mentioned above at both of these locations and may be an isolated occurrence These stations are considered critical and are NPDES discharge points However, radionuclides are not required NPDES monitoring parameters

We will keep a close watch on these stations, future monitoring should determine if additional investigative measures are needed The delay in reporting these out-of-specification results is due to sample backlog and analysis times of the contract lab

CLASSIFICATION	
UCNI	XX
UNCLASSIFIED	XX
CONFIDENTIAL	
SECRET	

1. 15 Arndt 9.

AUTHORIZED CLASSIFIER  
SIGNATURE J E Evered, Director  
Environmental Management

DATE 5/20/91  
BAM csk

IN REPLY TO LTR NO Orig and 1 cc - R M Nelson, Jr

Attachment  
As Stated

PC#  
LTR APPROVALS  
MBA  
KDC  
ORIG & TYPIST INITIALS

PAM/Ctk  
RF 46469 (Rev 3/91)

ADMIN RECORD

OUT OF SPECIFICATION  
WATER SAMPLE REPORT

Sample No. NP50214WC      Date October 29, 1990      Lab TMA/Norcal

Location A-3 Pond      Map attached Yes

Quality Assurance Concerns Data are not validated

<u>Parameter</u>	<u>Threshold Limit (pCi/L)</u>	<u>Result (pCi/L)</u>
Americium-241	0.05	0.1 ± 0.023

Source of Criterion IAG, CWQCC

Reporting Required? Yes      Nature of Requirement Critical Station and  
NPDES discharge point

Location of nearest surface water Walnut Creek Water Classification  
Segment 5

Source of observed results (if known) There was appreciable natural precipitation on October 19, 1990, 0.32 inches and on October 20, 1990, 0.67 inches. None of the upstream surface water stations exhibited any americium contamination.

Current control/investigative actions On October 29, 1990, Pond A-3 started being discharged. Clean Water Act Division (CWAD) monitored Pond A-3 discharge radionuclides, using the on-site laboratory, as part of the State Exchange Report program. The Americium-241 concentration in Pond A-3 Effluent reported to the State was  $0.035 \pm 0.037$  pCi/L.

Proposed control/investigative actions Further characterization of this area will be included as part of the characterization of Operable Unit 6, Walnut Creek.

Other comments Radionuclides are not required NPDES monitoring parameters.

Date of Report May-14-91

Preparer B. A. Montano

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OUT OF SPECIFICATION  
WATER SAMPLE REPORT

Sample No. NP50268WC      Date. December 5, 1990      Lab. TMA/Norcal  
Location. C-2 Pond, Water Classification Segment 5      Map attached. Yes  
Quality Assurance Concerns. Data are not validated

<u>Parameter</u>	<u>Threshold Limit (pCi/L)</u>	<u>Result (pCi/L)</u>
Americium-241	0 05	0 082 $\pm$ 0 020
Plutonium-239, -240	0 05	0 073 $\pm$ 0 024

Source of Criterion. IAG, CWQCC

Reporting Required? Yes      Nature of Requirement. NPDES discharge point

Location of nearest surface water. South Interceptor Ditch (SID), SW027,  
and Woman Creek      Woman Creek is Water Supply Classification Segment 4

Source of observed results (if known). There was no natural precipitation  
for ten days prior to this sampling date

Current control/investigative actions. Pond C-2 is not being discharged

Proposed control/investigative actions. Further characterization of this  
area will be included as part of the characterization of Operable Unit 5,  
Woman Creek

Other comments. RFP is currently not reporting Pond C-2 data to  
regulating agencies because we are not discharging. Radionuclides are not  
required NPDES monitoring parameters

Date of Report. May-14-91      Preparer. B A. Montano

